

and

at least one test case coupled with the generator for directing the generator;

wherein the checker further determines the desired output based upon the input; and

wherein the generator further includes intelligence to provide the input to the island based only upon data and a request provided by the at least one test case to the generator, the request requesting that the generator perform a particular simulation on the island.

10. (Amended) A method for providing simulation of an integrated circuit during development of the integrated circuit, the integrated circuit having an island including an interface, the method comprising the steps of:

(a) monitoring the interface to obtain an output provided by the island during simulation;

(b) checking the output to determine whether the output is a desired output, the checking step (b) further including the step of

(b1) determining the desired output based upon an input;

(c) providing the input to the island during simulation; and

(d) directing the providing of the input using at least one test case;

wherein the input is provided to the island using a generator including intelligence to provide the input to the island based only upon data and a request provided by the at least one test case to the generator, the request requesting that the generator perform a particular simulation on the island.

17. (Amended) A computer-readable medium having a program for providing simulation of an integrated circuit during development of the integrated circuit, the integrated circuit having an

island including an interface, the program comprising instructions for:

(a) monitoring the interface to obtain an output provided by the island during simulation;

(b) checking the output to determine whether the output is a desired output, the checking step (b) further including the step of

(b1) determining the desired output based upon an input;

(c) providing the input to the island during simulation; and

(d) directing the providing of the input using at least one test case;

wherein the input is provided to the island using a generator including intelligence to provide the input to the island based only upon data and a request provided by the at least one test case to the generator, the request requesting that the generator perform a particular simulation on the island.